

CLAIM

I claim:

1. A remote-end route-calculating navigation system, comprising at least one or more than one information center and a plurality of navigation requesters, wherein:
- said information center includes at least one main information unit consisting of an electronic map and a route calculating software and a communication device capable of transmitting/receiving phonic and digital information;
- said navigation requester comprises a satellite positioning device and a communication device having a man-to-system interface and an output unit, a data unit, a hand free unit, a voice synthesizer, a wireless communication equipment, a longitude/latitude contrasting and calculating unit, a communication protocol unit, a memory unit, an orientation calculating unit;
- said man-to-system interface generally refers to a keyboard matrix, hand-write input, touch-on screen, microphone that are interfaces permitting users to input data;
- said output unit generally refers to a monitor, speakers and etc., and is a unit for permitting a system to output indications or alarms message;
- said data unit is used to store telephone numbers of the information center and the addresses of digital networks and etc. that are data used to couple to the information center;

said hand free unit permits a user to communicate with the information center by way of a cellular phone or a communication device without holding a phone device in operation;

said voice synthesizer is stored with suggested driving routes, conditions and etc. to cope with the downloaded digital data from the information center;

said wireless communication equipment can be a cellular phone or other wireless communication devices;

said longitude/latitude contrasting and calculating unit is adapted for receiving signals from a satellite positioning device and cooperating with electronic maps downloaded from the information center so as to pinpoint instant positions of a user;

said communication protocol unit is stored with a wireless communication protocol, a satellite positioning signals coding protocol, a digital information transmitting protocol and other various protocols and codes and decodes indispensably required;

said memory unit is adapted for recording data including information downloaded from the information center, displaying information or inputting information;

said orientation calculating unit is used to receive signals from a satellite positioning device for consecutive usage;

said satellite positioning device is used to receive signals from satellites.

2. The remote-end route-calculating navigation system as claimed in claim 1 wherein

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said information center and said communication device share a common communication protocol whereby two-way transmission/receiving of information can be carried out therebetween.

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3. The remote-end route-calculating navigation system as claimed in claim 2 wherein said man-to-system interface of said communication device is equipped with an intelligence button which can be pressed down to automatically connect to said information center for transmitting or receiving information thereto or therefrom.

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4. The remote-end route-calculating navigation system as claimed in claim 1 wherein said navigation system can provide on-the-move information including instant traffic conditions on roads, intersection types of roads, road names, turning instructions and etc..